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TEST RESULTS OF STEEL

Lab ID : CP-2020-07-27-68

Date: 23-05-20

Customer : Assistant Executive Engineer, Yeshwanthpur Sub Division, BBMP, Bangalore.

Address : Yeshwanthpur Sub Division, BBMP, Bangalore.

Project Name : Providing Repairs Maintenance Infrastructure Upgradation Construction to BBMP School College Building in Ward No 17

Agency : The Technical Manager, Karnataka Rural Infrastructure Development Ltd., #18, KNS Complex, 2nd Floor, Near Pavithra Paradise, Basaveshwara Nagara.

Customer's Reference : EE/RRND/Wo. No/ /2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-05-20

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 22-05-20

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/05/2020

Lab ID	:	CP-2020-07-27-68
Customer	:	Assistant Executive Engineer, Yeshwanthpur Sub Division, BBMP, Bangalore.
Address	:	Yeshwanthpur Sub Division, BBMP, Bangalore.
Project Name	:	Providing Repairs Maintenance Infrastructure Upgradation Construction to BBMP School College Building in Ward No 17
Agency	:	The Technical Manager, Karnataka Rural Infrastructure Development Ltd., #18, KNS Complex, 2nd Floor, Near Pavithra Paradise, Basaveshwara Nagara.
Customer's Reference	:	EE/RRND/Wo. No/ /2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-05-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	23/05/2020	30/05/2020	150.29 X 149.05 X 150.81	22400	8.774	288.2	12.9	12.5
2	PCC	M15	23/05/2020	30/05/2020	150.00 X 150.72 X 150.64	22609	9.094	271.8	12.0	
3	PCC	M15	23/05/2020	30/05/2020	151.99 X 149.95 X 150.35	22791	8.621	288.5	12.7	

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QC ABSTRACT

NAME OF WORK: Providing Repairs Maintenance Infrastructure Upgradation Construction to BBMP School College Building in Ward No 17

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	PCC(M15)	Compressive Strength(7days and 28days)	2 set /6-15 cum	13.04	4	4
8	RMC(M20)	Compressive Strength(7days and 28days)	4 set /31-50 cum	45.07	8	8
9	RCC Loft (M20)	Compressive Strength(7days and 28days)	1 set /1-5 cum	3.6	2	2
10	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
11	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2020-07-27-68 **Date: 24-05-20**
Customer	:	Assistant Executive Engineer, Yeshwanthpur Sub Division, BBMP, Bangalore.
Address	:	Yeshwanthpur Sub Division, BBMP, Bangalore.
Project Name	:	Providing Repairs Maintenance Infrastructure Upgradation Construction to BBMP School College Building in Ward No 17
Agency	:	The Technical Manager, Karnataka Rural Infrastructure Development Ltd., #18, KNS Complex, 2nd Floor, Near Pavithra Paradise, Basaveshwara Nagara.
Customer's Reference	:	EE/RRND/Wo. No/ /2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-05-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.46	_
2	Finess by Air permeablity method (m^2/kg,Min)	255.8	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-07-27-68

Date: 19-06-20

Customer : Assistant Executive Engineer, Yeshwanthpur Sub Division, BBMP, Bangalore.

Address : Yeshwanthpur Sub Division, BBMP, Bangalore.

Project Name : Providing Repairs Maintenance Infrastructure Upgradation Construction to BBMP School College Building in Ward No 17

Agency : The Technical Manager, Karnataka Rural Infrastructure Development Ltd., #18, KNS Complex, 2nd Floor, Near Pavithra Paradise, Basaveshwara Nagara.

Customer's Reference : EE/RRND/Wo. No/ /2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-05-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 22-05-20

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2020-07-27-68 **Date: 24-05-20**
Customer	:	Assistant Executive Engineer, Yeshwanthpur Sub Division, BBMP, Bangalore.
Address	:	Yeshwanthpur Sub Division, BBMP, Bangalore.
Project Name	:	Providing Repairs Maintenance Infrastructure Upgradation Construction to BBMP School College Building in Ward No 17
Agency	:	The Technical Manager, Karnataka Rural Infrastructure Development Ltd., #18, KNS Complex, 2nd Floor, Near Pavithra Paradise, Basaveshwara Nagara.
Customer's Reference	:	EE/RRND/Wo. No/ /2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	21-05-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-05-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000 grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-07-27-68

Date: 24-05-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.69	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.24	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-07-27-68** **Date: 23-05-20**
Customer	:	Assistant Executive Engineer, Yeshwanthpur Sub Division, BBMP, Bangalore.
Address	:	Yeshwanthpur Sub Division, BBMP, Bangalore.
Project Name	:	Providing Repairs Maintenance Infrastructure Upgradation Construction to BBMP School College Building in Ward No 17
Agency	:	The Technical Manager, Karnataka Rural Infrastructure Development Ltd., #18, KNS Complex, 2nd Floor, Near Pavithra Paradise, Basaveshwara Nagara.
Customer Reference	:	EE/RRND/Wo. No/ /2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-05-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-07-27-68

Date: 23-05-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.2	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.24	–
7	Aggregate crushing Value(%)	22.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Date: 23-05-20

Lab ID	:	CP-2020-07-27-68
Customer	:	Assistant Executive Engineer, Yeshwanthpur Sub Division, BBMP, Bangalore.
Address	:	Yeshwanthpur Sub Division, BBMP, Bangalore.
Project Name	:	Providing Repairs Maintenance Infrastructure Upgradation Construction to BBMP School College Building in Ward No 17
Agency	:	The Technical Manager, Karnataka Rural Infrastructure Development Ltd., #18, KNS Complex, 2nd Floor, Near Pavithra Paradise, Basaveshwara Nagara.
Customer's Reference	:	EE/RRND/Wo. No/ /2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-20
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	21-05-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-07-27-68**

PHYSICAL PROPERTIES

Date: 23-05-20

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

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ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig. Date BANGALORE

****End of Report****

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2020-07-27-68 **Date: 15-07-20**
Customer	:	Assistant Executive Engineer, Yeshwanthpur Sub Division, BBMP, Bangalore.
Address	:	Yeshwanthpur Sub Division, BBMP, Bangalore.
Project Name	:	Providing Repairs Maintenance Infrastructure Upgradation Construction to BBMP School College Building in Ward No 17
Agency	:	The Technical Manager, Karnataka Rural Infrastructure Development Ltd., #18, KNS Complex, 2nd Floor, Near Pavithra Paradise, Basaveshwara Nagara.
Customer's Reference	:	EE/RRND/Wo. No/ /2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-07-20
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	11-07-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	202	199	16079	32.765	2037.7	2007.0	Not less than 1800Kg/m^3
2	399	200	203	16199	31.244	1928.7		
3	405	201	199	16200	33.284	2054.6		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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DIMENSION ANALYSIS

Date: 15-07-20

SLno	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	203	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	200	203	
3	403	200	202	
4	399	203	199	
5	402	200	203	
6	404	203	200	
7	404	200	199	
8	402	200	203	
9	402	202	202	
10	399	202	199	
11	403	200	202	
12	401	199	202	
13	403	200	202	
14	401	200	203	
15	402	202	200	
16	403	199	201	
17	404	202	200	
18	403	202	201	
19	401	199	201	
20	400	202	203	
Average of 20	402	201	201	

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COMPRESSIVE STRENGTH:

Date: 15-07-20

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	203	81633	365.5	4.5	4.6
2	402	200	80467	372.8	4.6	
3	403	200	80474	367.4	4.6	
4	399	203	81064	367.0	4.5	
5	402	200	80424	386.0	4.8	
6	404	203	81890	385.8	4.7	
7	404	200	80601	374.2	4.6	
8	402	200	80608	374.7	4.6	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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